


Dell™ Systems


Dell OpenManage™ Remote Service Card VT-100 Cable




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Notes, Notices, Cautions, and Warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.**

 **WARNING: A WARNING indicates a potentially hazardous situation which, if not avoided, may result in severe injury.**

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This document provides information about installing the Dell OpenManage™ Remote Service Card (DRSC) VT-100 serial cable and installing the software to run VT-100 terminal emulation.


Installing the DRSC Serial Cable for VT-100 Terminal Emulation

- 1 Power down the system and turn off all attached peripheral devices.
- 2 Disconnect the system and peripheral devices from their electrical outlets.
- 3 Disconnect any telecommunication lines from the system.

 **WARNING:** The power supplies in your system or storage system may produce high voltages and energy hazards, which can cause bodily harm. Only trained service technicians are authorized to remove the system covers and access any of the components inside the system. This warning applies to Dell™ PowerEdge™ 4xxx or higher systems and PowerVault™ 2xxS storage systems.

- 4 Remove the system cover according to the instructions in your PowerEdge system *Installation and Troubleshooting Guide*.

 **NOTICE:** You must use the serial cable for VT-100 terminal emulation because it has a specific pin-out. Using the wrong cable will result in VT-100 terminal emulation failure.


 **NOTE:** The interface uses standard RS-232 serial communications through a DB-9 connector.

- 5 Connect the DRSC serial cable to the J11 serial connector on your DRSC. See your *DRSC User's Guide* for a picture that shows the location of the J11 connector.
- 6 Install the DRSC serial cable's bracket in an empty slot in your PowerEdge system.
- 7 Replace and secure the system cover.
- 8 Reconnect the system and peripheral devices to their electrical outlets and turn them on.

The DRSC must be configured before starting terminal emulation. See the *DRSC User's Guide* or the *Dell OpenManage IT Assistant User's Guide* for information on configuring your DRSC.

After configuration, the DRSC is ready to be connected to a VT-100 terminal or a device that supports VT-100 terminal emulation. To run the terminal emulation, see the next section, "Installing the Software to Run VT-100 Terminal Emulation."

Installing the Software to Run VT-100 Terminal Emulation

 **NOTE:** The following steps describe installing the software under Microsoft® Windows NT® 4.0. The steps for other Windows® operating systems are similar.

Software that supports VT-100 terminal emulation, such as Windows HyperTerminal, must be installed on the system that you want to connect to the DRSC. If this software is already installed, go to step 8. Otherwise, perform the following steps:

- 1** Click the **Start** button, point to **Settings**, and click **Control Panel**.
- 2** Double-click the **Add/Remove Programs** icon.
- 3** Click the **Windows Setup** tab.
- 4** In the **Components** area, click **Communications**.
- 5** Click **Details**.
- 6** Click the box to the left of **HyperTerminal**.
- 7** Click **OK** twice.

You are prompted to insert the *Microsoft Windows* CD.

- 8** Click the **Start** button, point to **Programs**—> **Accessories**—> **HyperTerminal**, and click **HyperTerminal**.
- 9** In the **Connection Description** window, type a name for your DRSC connection (for example, `DRSC VT-100 connection`) and click **OK**.
- 10** In the **Connect To** window, set **Connect using** to the communications (COM) port that you will be using.

Ensure that you have a null modem cable connecting the COM port you chose to the DRSC serial connection.

When using a VT-100 (or equivalent) terminal rather than terminal emulation software, use a standard serial cable.

- 11** Click **OK**.
- 12** In the **COM1 Properties** window (or **COM2 Properties** window, depending on your selection in step 10), set **Bits per second** to **9600**.
- 13** Click **OK**.

The program is now configured.

- 14** To start terminal emulation, click **Call** and then click **Connect**.

Using VT-100 Terminal Emulation With DRSC

- 1 Start terminal emulation and then complete the instructions as they appear on the screen.
- 2 When prompted, type the user name and password.
A menu appears with all of the commands that can be used with the DRSC under VT-100 terminal emulation.
- 3 Choose the command number you want and press <Enter>.

As a security measure, if the VT-100 interface senses no activity for 300 seconds (this value is user-selectable; its default value is 300 seconds), a log out warning message appears and asks the user if he wants to stay connected. If the user does not choose to stay connected within 15 seconds (this value is not user-selectable), the current session is terminated and the user is logged out.



NOTE: Choose **3** to start console redirection. To end console redirection, the DRSC provides a configurable PF key. This key is displayed when you start the VT-100 console redirection session. The default value for this key is PF3. The management station must be in text mode for console redirection to work.

DRSC VT-100 Communication Port Settings

If you want to use the VT-100 terminal emulation feature on a system not running a Windows operating system, you need to know the default communication port settings to configure your native terminal emulation software. The default communication port settings are:

- 9600 baud
- Eight data bits
- No parity
- One-stop bit
- Hardware flow control

If you are using a Linux system, you can use the minicom terminal emulator, which is part of Red Hat Linux 7.x.